

CLAIMS

1. A system comprising:
a group of lamps, the lamps including different colored LEDs so that the lamps can glow with different color light produced by mixing light of different colored LEDs, the lamps including a light guide to spread the light over a larger area; and
a control unit adapted to drive the colors of the lamps in accordance with a video signal.
2. The system of claim 1, wherein the lamps include a lamp housing.
3. The system of claim 1, wherein the LEDs are positioned on a circuit board.
4. The system of claim 1, wherein the group of lamps is a grid of lamps.
5. The system of claim 4, wherein the pitch between lamps is 20 mm or greater.
6. The system of claim 1, wherein the lamp includes a diffuser plate.
7. The system of claim 6, wherein the diffuser plate increases the contrast of the color.
8. The system of claim 1, wherein light from the LEDs goes into one end of the light guide and comes out the front of the light guide.
9. The system of claim 1, wherein the light guide includes a collimator.
10. The system of claim 1, wherein the light guide includes facets for reflecting light forward.
11. The system of claim 1, wherein the light guide is rectangular.
12. The system of claim 1, wherein the light guide extends out from a base.

13. The system of claim 1, wherein the light guide forms a bulb.
14. The system of claim 13, wherein the bulb includes a center cavity.
15. The system of claim 1, further comprising a frame to hold the group of lamps.
16. The system of claim 15, further comprising an additional frame containing another group of lamps.
17. The system of claim 1, further comprising a video processor adapted to provide the video signal to the control unit.
18. The system of claim 1, wherein the control unit uses a subset of the pixels in the video signal.
19. The system of claim 18, wherein the subset is determined by address information.
20. A system comprising:
 - a group of lamps, at least some of the lamps being greater than or equal to 20mm in pixel size and using at least one LED to produce light of different colors; and
 - a control unit adapted to set color of the lamps in accordance with a video signal.
21. The system of claim 20, wherein the lamps include a light guide to spread the light over a wider area.
22. The system of claim 21, wherein light from different colored LEDs is mixed in the light guide.
23. The system of claim 20, wherein the group of lamps is a grid of lamps.
24. The system of claim 20, wherein large-sized LEDs are used.

25. The system of claim 20, wherein multiple LEDs or LED clusters on a lamp are driven with the same signal to create a single pixel lamp.
26. The system of claim 20, wherein the LED is an organic LED.
27. The system of claim 20, wherein the LED is a polymer LED.
28. A system comprising:
a group of lamps, the lamps including LEDs, the lamps including a light guide to spread the light over a larger area; and
a control unit adapted to adjust the intensity of the LEDs in accordance with a video signal.
29. The method of claim 28 wherein the lamp has multiple colored LEDs and the control unit is adapted to drive the colors of the lamps in accordance with the video signal.
30. The system of claim 28, wherein the lamps include a lamp housing.
31. The system of claim 28, wherein the LEDs are positioned on a circuit board.
32. The system of claim 28, wherein the group of lamps is a grid of lamps.
33. The system of claim 32, wherein the pitch between lamps is 20 mm or greater.
34. The system of claim 28, wherein the lamp includes a diffuser plate.
35. The system of claim 34, wherein the diffuser plate increases the contrast of the color.
36. The system of claim 28, wherein light from the LEDs goes into one end of the light guide and comes out the front of the light guide.

37. The system of claim 28, wherein the light guide includes a collimator.
38. The system of claim 28, wherein the light guide includes facets for reflecting light forward.
39. The system of claim 28, wherein the light guide is rectangular.
40. The system of claim 28, wherein the light guide extends out from a base.
41. The system of claim 28, wherein the light guide forms a bulb.
42. The system of claim 41, wherein the bulb includes a center cavity.
43. The system of claim 28, further comprising a frame to hold the group of lamps.
44. The system of claim 43, further comprising an additional frame containing another group of lamps.
45. The system of claim 28, further comprising a video processor adapted to provide the video signal to the control unit.
46. The system of claim 28, wherein the control unit uses a subset of the pixels in the video signal.
47. The system of claim 46, wherein the subset is determined by address information.